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NATIONAL COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

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WEEKLY REPORT

Week Ending January 20, 1968

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE — PUBLIC HEALTH SERVICE

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

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EPIDEMIOLOGIC NOTES AND REPORTS
OUTBREAK OF MENINGOCOCCAL INFECTION
Mississippi

From January 14 through 19, 1968, four documented cases and four suspect cases of meningococcal infection with three deaths occurred among 56 elderly female patients, residing on the second floor of a Mississippi state hospital for the mentally ill. The outbreak began on January 14 when two patients suddenly died, and a third patient was admitted to the institution's infirmary with purulent meningitis (Figure 1). Clinical and epidemiologic investigation revealed that the first fatal case had a temperature of 107°F. before death. Autopsy on the second fatal case revealed bilateral adrenal hemorrhage. Gram stains of cerebrospinal fluid from the third and fifth patients showed Gram-negative intracellular diplococci which was confirmed as meningococci by fluorescent antibody directed against Group B. This fifth patient died in shock; she had classical skin lesions of meningococcemia. Fluorescent antibody studies on autopsy material were

(Continued on page 22)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	3rd WEEK ENDED		MEDIAN	CUMULATIVE, FIRST 3 WEEKS		
	JANUARY 20, 1968	JANUARY 21, 1967	1963 - 1967	1968	1967	MEDIAN 1963 - 1967
Aseptic meningitis	24	29	32	77	77	87
Brucellosis	—	1	3	2	7	10
Diphtheria	2	1	2	3	3	11
Encephalitis, primary:						
Arthropod-borne & unspecified	17	20	- - -	52	59	- - -
Encephalitis, post-infectious	9	7	- - -	28	20	- - -
Hepatitis, serum	76	29	778	177	108	2,252
Hepatitis, infectious	814	749		2,167	2,019	
Malaria	36	27	5	112	67	5
Measles (rubeola)	555	1,473	5,946	1,274	4,039	14,819
Meningococcal infections, total	85	73	63	192	191	191
Civilian	82	68	- - -	188	177	- - -
Military	3	5	- - -	4	14	- - -
Mumps	5,429	- - -	- - -	12,443	- - -	- - -
Poliomyelitis, total	—	—	—	—	—	1
Paralytic	—	—	—	—	—	—
Rubella (German measles)	603	654	- - -	1,351	1,406	- - -
Streptococcal sore throat & scarlet fever	11,019	11,927	9,610	30,840	30,501	26,356
Tetanus	1	3	2	1	6	10
Tularemia	1	4	4	2	9	15
Typhoid fever	9	5	5	16	9	12
Typhus, tick-borne (Rky. Mt. spotted fever)	—	—	—	2	3	3
Rabies in animals	65	71	61	198	205	203

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	—	Rabies in man:	—
Botulism:	—	Rubella, Congenital Syndrome:	—
Leptospirosis:	—	Trichinosis: Pa.-1	2
Plague:	—	Typhus, murine:	—
Psittacosis	2	Polio, Unsp.	—

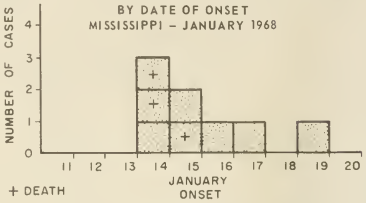
OUTBREAK OF MENINGIOCOCCAL INFECTION – *(Continued from front page)*

strongly positive for *Neisseria meningitidis*. The seventh and eighth patients had classical skin lesions, and had positive nasopharyngeal and blood cultures for sulfonamide-resistant, Group B meningococci. Cases 4 and 6 were diagnosed on the bases of high fever, leukocytosis, and petechiae.

Epidemiologic investigation revealed that 34 percent of the 56 patients on the second floor had had documented temperature elevations and symptoms attributed to viral upper respiratory disease between January 3 and January 17. On January 17, a Group B meningococcal carrier rate of 16 percent was found among the 48 patients, then residing on the ward. All but one isolate (5 of 6) were sulfonamide-resistant. Preliminary results of nasopharngeal swab surveys, of comparable male and female ward populations (174 males and 114 females) conducted at the institution on January 17 and 19, showed type B carrier rates of 6 percent or less. All these isolates were sulfonamide sensitive.

Since evidence implicated a type B sulfonamide-resistant meningococcal strain as the cause of the epidemic and as prevalent only in one building, strict quarantine measures were imposed, and antibiotic prophylaxis

Figure 1
NUMBER OF CASES OF MENINGOCOCCAL INFECTION
BY DATE OF ONSET
MISSISSIPPI – JANUARY 1968



with penicillin was initiated. Epidemiologic and laboratory investigations are continuing.

(Reported by William Jaquith, M.D., James Head, M.D., and Manning Hudsan, M.D., Mississippi State Hospital, Whitfield, Mississippi; A. L. Gray, M.D., M.P.H., Executive Officer, and Durward L. Blakey, M.D., M.P.H., Director, Preventable Disease Control, Mississippi State Board of Health; and Epidemiological Services Laboratory Section, NCDC, and a team of EIS Officers.)

SURVEILLANCE SUMMARY
MEASLES – United States, 1967

For the first time since reporting of measles began on a national basis (1912), the reported cases in 1967 were fewer than 100 per 100,000 population. In 1967, the case rate per 100,000 population was 37.4 as compared to 104.2 in 1966.

The frequency distribution of the states according to the reported measles cases per 100,000 population for calendar years 1966 and 1967 is shown in Table 1. The primary difference between 1966 and 1967 occurs in the high and low levels; there was essentially no change in the number of states falling into the two middle categories. However, there was a considerable change by individual states to a different rate category in the 2 years.

In 1967, 29 states, the District of Columbia, and New York City showed marked decreases in reported cases of measles per 100,000 population from the 1966 reports. This is reflected by the maps in Figures 2 and 3; 10 states showed a decrease in rates, but the decrease was not enough to show improvement on the maps from 1966 to 1967.

(Continued on page 28)

Table 1
Frequency Distribution of States* According to Reported Measles Cases per 100,000 Population

Cases per 100,000 population	Number of States	
	1967	1966
Less than 25.0	25	11
25.0 to 49.9	10	9
50.0 to 99.9	13	14
100.0 or greater	4	18

*Includes the District of Columbia and New York City.

Figure 2
REPORTED MEASLES CASES PER 100,000 POPULATION
UNITED STATES, 1967

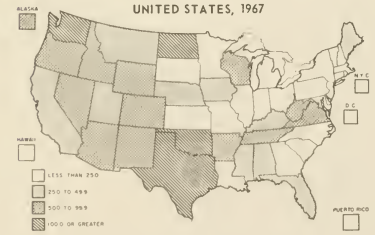
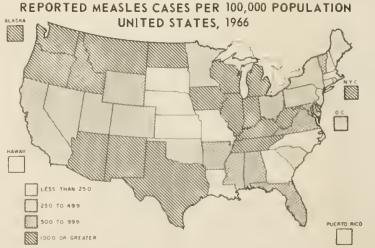


Figure 3
REPORTED MEASLES CASES PER 100,000 POPULATION
UNITED STATES, 1966



EPIDEMIOLOGIC NOTES AND REPORTS
EPIDEMIOLOGIC INVESTIGATION OF INFLUENZA IN MICHIGAN

During the current U.S. influenza epidemic, every county in Michigan experienced an outbreak of influenza (Figure 1), although the severity of illness and the proportion of the populace varied by county. Serologic confirmation of the outbreaks as influenza A2 was made by complement fixation tests on specimens from eight counties, Kalamazoo, Ingham, Calhoun, Washtenaw, Wayne, Kent, Marquette, and Saginaw. Specimens from patients in other counties are presently undergoing laboratory investigation. Although the major Michigan epidemic has subsided, sporadic cases continue to be reported.

Recently, a telephone survey to Michigan county health departments obtained the dates of onset of influenza in each county. The progress of influenza through Michigan was traced by analysis of these data. According to the survey results and to the dates of outbreaks submitted to NCDC, the first outbreak occurred at Western Michigan University in Kalamazoo in the 43rd week, October 21, of 1967 (MMWR, Vol. 16, No. 48). In the 44th week, influenza occurred in Battle Creek, Calhoun County, and in the 46th week, influenza occurred in Lansing. Following the Thanksgiving holiday, influenza spread rapidly in all directions, especially, to the northern and eastern highly populated counties of Saginaw, Genesee, Wayne, Oakland, and Macomb. During the 50th week, December 10-16, the northern half of the lower peninsula and upper peninsula experienced influenza outbreaks. In the 51st and 52nd weeks, outbreaks were reported from the western upper peninsula.

In these county outbreaks, influenza usually was first noted in the high schools. During the first week, a few cases of febrile respiratory illness occurred, and by the second week, school absenteeism from influenza increased to 25 or 30 percent. By the third week, influenza had spread to the elementary school children and adults in the county. By the end of the fourth week, only sporadic cases occurred, and the county epidemic was over. In the city epidemics, school absenteeism was also 25 to 30 percent; however, Traverse City reported 50 percent absenteeism, and Hisperia, Newaygo County, reported 70 percent. *(Reported by George H. Agate, M.D., M.S.P.H., Chief Division of Epidemiology, and Maurice Becker, Ph.D., Chief, Virology Laboratory, Michigan Department of Public Health; and an EIS Officer.)*

Figure 4
INFLUENZA AND INFLUENZA-LIKE ILLNESS IN MICHIGAN
BY COUNTY BY WEEK OF ONSET
OCTOBER - DECEMBER 1967

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JANUARY 20, 1968 AND JANUARY 21, 1967 (3rd WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			MALARIA
					Primary including unsp. cases		Post-Infectious	Serum	Infectious		
	1968	1967	1968	1968	1968	1967	1968	1968	1968	1967	1968
UNITED STATES...	24	29	-	2	17	20	9	76	814	749	36
NEW ENGLAND.....	-	-	-	-	2	1	-	4	44	33	1
Maine.....	-	-	-	-	-	-	-	-	-	3	-
New Hampshire.....	-	-	-	-	1	-	-	-	-	1	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	-	-	-	-	-	-	-	13	9	-
Rhode Island.....	-	-	-	-	-	1	-	1	8	7	-
Connecticut.....	-	-	-	-	1	-	-	3	23	13	1
MIDDLE ATLANTIC.....	2	4	-	-	4	3	2	32	122	118	6
New York City.....	-	1	-	-	-	1	-	26	51	19	-
New York, up-State.	-	2	-	-	-	-	2	-	24	47	1
New Jersey.....	1	-	-	-	-	1	-	4	14	21	-
Pennsylvania.....	1	1	-	-	4	1	-	2	33	31	5
EAST NORTH CENTRAL...	2	1	-	-	3	2	1	1	153	135	1
Ohio.....	-	-	-	-	1	2	-	-	58	22	-
Indiana.....	-	-	-	-	-	-	-	-	3	5	-
Illinois.....	-	-	-	-	-	-	-	-	34	20	-
Michigan.....	1	1	-	-	2	-	1	1	42	55	1
Wisconsin.....	1	-	-	-	-	-	-	-	16	13	-
WEST NORTH CENTRAL...	1	-	-	-	-	1	2	2	56	35	4
Minnesota.....	1	-	-	-	-	-	-	-	19	13	-
Iowa.....	-	-	-	-	-	-	2	-	9	4	-
Missouri.....	-	-	-	-	-	1	-	2	16	13	-
North Dakota.....	-	-	-	-	-	-	-	-	4	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	-	2	-	-
Kansas.....	-	-	-	-	-	-	-	-	6	5	4
SOUTH ATLANTIC.....	6	4	-	2	3	2	-	2	69	61	12
Delaware.....	-	-	-	-	-	-	-	-	-	2	-
Maryland.....	1	1	-	-	-	1	-	-	14	18	3
Dist. of Columbia..	-	-	-	-	-	-	-	-	1	-	1
Virginia.....	-	-	-	1	1	-	-	-	18	4	-
West Virginia.....	3	-	-	-	-	-	-	-	4	11	-
North Carolina.....	2	2	-	-	-	1	-	-	4	6	3
South Carolina.....	-	-	-	-	-	-	-	-	1	-	1
Georgia.....	-	-	-	-	-	-	-	-	13	6	4
Florida.....	-	1	-	1	2	-	-	2	14	14	-
EAST SOUTH CENTRAL...	1	-	-	-	-	-	-	-	58	69	-
Kentucky.....	-	-	-	-	-	-	-	-	29	30	-
Tennessee.....	1	-	-	-	-	-	-	-	18	21	-
Alabama.....	-	-	-	-	-	-	-	-	4	11	-
Mississippi.....	-	-	-	-	-	-	-	-	7	7	-
WEST SOUTH CENTRAL...	1	1	-	-	1	2	-	2	67	71	1
Arkansas.....	-	-	-	-	-	-	-	-	2	7	-
Louisiana.....	-	-	-	-	-	1	-	2	11	9	1
Oklahoma.....	-	-	-	-	1	-	-	-	16	4	-
Texas.....	1	1	-	-	-	1	-	-	38	51	-
MOUNTAIN.....	-	1	-	-	1	-	-	-	27	72	1
Montana.....	-	-	-	-	-	-	-	-	7	4	-
Idaho.....	-	-	-	-	-	-	-	-	9	5	-
Wyoming.....	-	-	-	-	-	-	-	-	1	-	-
Colorado.....	-	-	-	-	1	-	-	-	1	3	1
New Mexico.....	-	-	-	-	-	-	-	-	2	43	-
Arizona.....	-	1	-	-	-	-	-	-	5	9	-
Utah.....	-	-	-	-	-	-	-	-	2	8	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	11	18	-	-	3	9	4	33	218	175	10
Washington.....	-	-	-	-	-	-	1	-	16	17	-
Oregon.....	-	-	-	-	-	-	-	1	16	36	1
California.....	11	15	-	-	3	9	3	32	184	121	9
Alaska.....	-	-	-	-	-	-	-	-	2	1	-
Hawaii.....	-	3	-	-	-	-	-	-	-	-	-
Puerto Rico.....	-	-	-	-	-	-	-	-	3	2	-

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JANUARY 20, 1968 AND JANUARY 21, 1967 (3rd WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA
		Cumulative			Cumulative			Total	Paralytic		
	1968	1968	1967	1968	1968	1967	1968	1968	1968	Cum. 1968	1968
UNITED STATES...	555	1,274	4,039	85	192	191	5,429	-	-	-	603
NEW ENGLAND.....	16	37	34	2	7	6	556	-	-	-	44
Maine.....	1	2	4	-	-	1	20	-	-	-	2
New Hampshire.....	-	-	1	-	-	-	7	-	-	-	-
Vermont.....	-	-	4	-	-	-	57	-	-	-	-
Massachusetts.....	7	19	21	1	3	3	293	-	-	-	14
Rhode Island.....	-	-	2	-	-	-	55	-	-	-	-
Connecticut.....	8	16	2	1	4	2	124	-	-	-	28
MIDDLE ATLANTIC.....	69	171	191	11	28	29	289	-	-	-	60
New York City.....	12	24	24	5	6	6	84	-	-	-	30
New York, Up-State.	31	106	50	-	1	9	-	-	-	-	20
New Jersey.....	19	33	86	2	8	11	205	-	-	-	10
Pennsylvania.....	7	8	31	4	13	3	-	-	-	-	-
EAST NORTH CENTRAL...	183	362	440	10	27	15	2,051	-	-	-	117
Ohio.....	29	65	35	4	8	7	293	-	-	-	12
Indiana.....	52	75	79	1	3	1	125	-	-	-	9
Illinois.....	58	132	39	1	4	3	237	-	-	-	17
Michigan.....	8	20	117	3	11	3	610	-	-	-	46
Wisconsin.....	36	70	170	1	1	1	786	-	-	-	33
WEST NORTH CENTRAL...	25	55	140	5	15	10	773	-	-	-	52
Minnesota.....	-	-	5	-	1	1	26	-	-	-	5
Iowa.....	9	21	29	1	1	2	617	-	-	-	27
Missouri.....	-	1	6	2	4	3	17	-	-	-	-
North Dakota.....	5	14	49	1	1	-	83	-	-	-	11
South Dakota.....	1	2	14	-	2	1	-	-	-	-	-
Nebraska.....	2	3	37	-	1	2	10	-	-	-	-
Kansas.....	8	14	NN	1	5	1	20	-	-	-	9
SOUTH ATLANTIC.....	35	106	406	27	46	33	392	-	-	-	29
Delaware.....	-	-	-	-	-	-	9	-	-	-	1
Maryland.....	4	8	2	1	1	3	39	-	-	-	5
Dist. of Columbia..	-	-	4	-	1	-	-	-	-	-	-
Virginia.....	6	16	66	4	4	3	101	-	-	-	14
West Virginia.....	10	34	87	-	2	7	160	-	-	-	3
North Carolina.....	-	2	75	4	8	7	-	-	-	-	-
South Carolina.....	-	2	1	2	8	1	3	-	-	-	2
Georgia.....	-	-	8	4	5	4	-	-	-	-	-
Florida.....	15	44	163	12	17	8	80	-	-	-	-
EAST SOUTH CENTRAL...	8	27	465	1	6	15	272	-	-	-	23
Kentucky.....	1	4	65	-	2	4	99	-	-	-	-
Tennessee.....	2	15	195	1	4	7	147	-	-	-	12
Alabama.....	3	5	66	-	-	2	14	-	-	-	11
Mississippi.....	2	3	139	-	-	2	12	-	-	-	-
WEST SOUTH CENTRAL...	103	241	1,210	18	37	30	186	-	-	-	16
Arkansas.....	-	-	137	-	1	-	-	-	-	-	-
Louisiana.....	-	1	13	7	9	12	2	-	-	-	1
Oklahoma.....	-	34	179	1	7	-	3	-	-	-	-
Texas.....	103	206	881	10	20	18	181	-	-	-	15
MOUNTAIN.....	15	52	340	-	2	6	127	-	-	-	89
Montana.....	1	1	88	-	1	-	20	-	-	-	4
Idaho.....	-	6	28	-	-	1	-	-	-	-	58
Wyoming.....	2	13	-	-	-	-	16	-	-	-	-
Colorado.....	5	15	42	-	-	1	-	-	-	-	8
New Mexico.....	-	6	47	-	-	3	49	-	-	-	5
Arizona.....	7	11	55	-	1	-	40	-	-	-	13
Utah.....	-	-	10	-	-	-	2	-	-	-	1
Nevada.....	-	-	70	-	-	1	-	-	-	-	-
PACIFIC.....	101	223	813	11	24	47	783	-	-	-	173
Washington.....	34	66	429	1	2	1	258	-	-	-	73
Oregon.....	27	58	150	-	1	3	19	-	-	-	14
California.....	39	87	189	10	21	42	486	-	-	-	81
Alaska.....	-	-	39	-	-	1	9	-	-	-	5
Hawaii.....	1	12	6	-	-	-	11	-	-	-	-
Puerto Rico.....	9	9	113	-	-	-	25	-	-	-	1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JANUARY 20, 1968 AND JANUARY 21, 1967 (3rd WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968
UNITED STATES...	11,019	1	1	1	2	9	16	-	2	65	198
NEW ENGLAND.....	1,400	-	-	-	-	1	1	-	-	-	2
Maine.....	27	-	-	-	-	-	-	-	-	-	2
New Hampshire.....	43	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	239	-	-	-	-	-	-	-	-	-	-
Rhode Island.....	85	-	-	-	-	-	-	-	-	-	-
Connecticut.....	1,006	-	-	-	-	1	1	-	-	-	-
MIDDLE ATLANTIC.....	198	-	-	-	-	4	5	-	-	1	1
New York City.....	13	-	-	-	-	4	4	-	-	-	-
New York, Up-State.	165	-	-	-	-	-	1	-	-	1	1
New Jersey.....	NN	-	-	-	-	-	-	-	-	-	-
Pennsylvania.....	20	-	-	-	-	-	-	-	-	-	-
EAST NORTH CENTRAL...	1,093	1	1	1	1	1	2	-	-	5	18
Ohio.....	179	-	-	-	-	1	2	-	-	1	8
Indiana.....	232	-	-	-	-	-	-	-	-	2	6
Illinois.....	140	1	1	-	-	-	-	-	-	1	1
Michigan.....	292	-	-	1	1	-	-	-	-	1	2
Wisconsin.....	250	-	-	-	-	-	-	-	-	-	1
WEST NORTH CENTRAL...	491	-	-	-	-	1	2	-	-	12	26
Minnesota.....	56	-	-	-	-	-	-	-	-	1	5
Iowa.....	155	-	-	-	-	-	-	-	-	5	7
Missouri.....	7	-	-	-	-	1	2	-	-	4	7
North Dakota.....	184	-	-	-	-	-	-	-	-	1	4
South Dakota.....	44	-	-	-	-	-	-	-	-	-	-
Nebraska.....	3	-	-	-	-	-	-	-	-	1	1
Kansas.....	42	-	-	-	-	-	-	-	-	-	2
SOUTH ATLANTIC.....	1,106	-	-	-	-	-	1	-	2	7	24
Delaware.....	21	-	-	-	-	-	-	-	-	-	-
Maryland.....	152	-	-	-	-	-	1	-	-	-	-
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	448	-	-	-	-	-	-	-	2	2	10
West Virginia.....	203	-	-	-	-	-	-	-	-	2	4
North Carolina.....	37	-	-	-	-	-	-	-	-	-	-
South Carolina.....	13	-	-	-	-	-	-	-	-	-	-
Georgia.....	15	-	-	-	-	-	-	-	-	1	3
Florida.....	217	-	-	-	-	-	-	-	-	2	7
EAST SOUTH CENTRAL...	1,427	-	-	-	-	1	3	-	-	23	81
Kentucky.....	79	-	-	-	-	-	-	-	-	9	25
Tennessee.....	1,196	-	-	-	-	1	3	-	-	12	53
Alabama.....	102	-	-	-	-	-	-	-	-	2	3
Mississippi.....	50	-	-	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL...	1,227	-	-	-	-	-	-	-	-	13	37
Arkansas.....	7	-	-	-	-	-	-	-	-	2	3
Louisiana.....	1	-	-	-	-	-	-	-	-	1	3
Oklahoma.....	132	-	-	-	-	-	-	-	-	4	11
Texas.....	1,087	-	-	-	-	-	-	-	-	6	20
MOUNTAIN.....	2,012	-	-	-	1	-	-	-	-	1	2
Montana.....	59	-	-	-	-	-	-	-	-	-	-
Idaho.....	146	-	-	-	-	-	-	-	-	-	-
Wyoming.....	162	-	-	-	-	-	-	-	-	-	-
Colorado.....	1,134	-	-	-	-	-	-	-	-	-	-
New Mexico.....	294	-	-	-	-	-	-	-	-	-	-
Arizona.....	130	-	-	-	-	-	-	-	-	1	2
Utah.....	87	-	-	-	1	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	2,065	-	-	-	-	1	2	-	-	3	7
Washington.....	670	-	-	-	-	-	-	-	-	-	-
Oregon.....	179	-	-	-	-	-	-	-	-	-	-
California.....	1,158	-	-	-	-	1	2	-	-	3	7
Alaska.....	34	-	-	-	-	-	-	-	-	-	-
Hawaii.....	24	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	2	-	-	-	-	-	-	-	-	-	-

Week No. 3

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JANUARY 20, 1968

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza	Under 1 year
	All Ages	65 years and over	All Ages	All Causes
NEW ENGLAND:	1,068	680	102	36
Boston, Mass.	374	219	34	17
Bridgeport, Conn.	47	30	11	2
Cambridge, Mass.	45	30	-	1
Fall River, Mass.	59	42	4	-
Hartford, Conn.	61	34	1	4
Lowell, Mass.	39	27	3	-
Lynn, Mass.	33	21	3	-
New Bedford, Mass.	34	25	2	-
New Haven, Conn.	66	42	4	2
Providence, R. I.	108	74	18	1
Somerville, Mass.	12	8	2	-
Springfield, Mass.	70	45	8	3
Waterbury, Conn.	31	21	1	-
Worcester, Mass.	89	62	11	6
MIDDLE ATLANTIC:	4,209	2,644	308	150
Albany, N. Y.	63	33	6	1
Allentown, Pa.	34	16	1	1
Buffalo, N. Y.	184	118	4	8
Camden, N. J.	43	26	5	1
Elizabeth, N. J.	48	32	5	-
Erie, Pa.	49	30	5	1
Jersey City, N. J.	119	78	12	2
Newark, N. J.	114	54	15	25
New York City, N. Y.	2,188	1,390	150	74
Paterson, N. J.	54	33	8	1
Philadelphia, Pa.	563	349	15	16
Pittsburgh, Pa.	256	144	19	6
Reading, Pa.	58	35	10	2
Rochester, N. Y.	146	101	26	6
Schenectady, N. Y.	31	20	2	-
Scranton, Pa.	44	32	12	-
Syracuse, N. Y.	80	59	1	3
Trenton, N. J.	65	42	4	1
Utica, N. Y.	34	24	5	-
Yonkers, N. Y.	36	28	3	2
EAST NORTH CENTRAL:	3,195	1,899	158	148
Akron, Ohio	71	45	-	2
Canton, Ohio	43	27	7	1
Chicago, Ill.	997	575	55	42
Cincinnati, Ohio	188	114	2	9
Cleveland, Ohio	242	124	5	10
Columbus, Ohio	184	108	5	12
Dayton, Ohio	100	57	8	2
Detroit, Mich.	380	208	9	22
Evansville, Ind.	52	39	5	1
Flint, Mich.	39	17	3	1
Fort Wayne, Ind.	47	36	5	2
Gary, Ind.	46	21	6	4
Grand Rapids, Mich.	50	37	7	1
Indianapolis, Ind.	180	111	4	8
Madison, Wis.	33	18	-	2
Milwaukee, Wis.	162	103	8	19
Peoria, Ill.	42	28	3	-
Rockford, Ill.	49	40	5	1
South Bend, Ind.	63	46	9	2
Toledo, Ohio	154	96	11	5
Youngstown, Ohio	73	49	1	2
WEST NORTH CENTRAL:	1,147	815	97	35
Des Moines, Iowa	73	50	2	-
Duluth, Minn.	14	11	-	-
Kansas City, Kans.	57	32	6	4
Kansas City, Mo.	198	145	12	1
Lincoln, Nebr.	46	40	13	1
Minneapolis, Minn.	151	110	7	6
Omaha, Nebr.	107	74	4	3
St. Louis, Mo.	345	236	30	13
St. Paul, Minn.	75	54	8	5
Wichita, Kans.	81	63	15	2

Area	All Causes		Pneumonia and Influenza	Under 1 year
	All Ages	65 years and over	All Ages	All Causes
SOUTH ATLANTIC:	1,469	842	103	63
Atlanta, Ga.	172	85	9	9
Baltimore, Md.	340	198	19	11
Charlotte, N. C.	56	28	11	2
Jacksonville, Fla.	90	50	4	5
Miami, Fla.	124	60	2	5
Norfolk, Va.	63	33	5	6
Richmond, Va.	88	59	-	5
Savannah, Ga.	59	41	10	2
St. Petersburg, Fla.	94	80	7	-
Tampa, Fla.	90	52	9	2
Washington, D. C.	255	138	22	15
Wilmington, Del.	38	18	5	1
EAST SOUTH CENTRAL:	898	547	92	22
Birmingham, Ala.	157	99	19	5
Chattanooga, Tenn.	67	34	9	2
Knoxville, Tenn.	75	55	6	-
Louisville, Ky.	151	94	20	-
Memphis, Tenn.	170	89	7	6
Mobile, Ala.	72	42	10	6
Montgomery, Ala.	53	27	9	1
Nashville, Tenn.	153	107	12	2
WEST SOUTH CENTRAL:	1,656	975	208	74
Austin, Tex.	59	41	14	-
Baton Rouge, La.	56	31	10	3
Corpus Christi, Tex.	37	18	6	2
Dallas, Tex.	278	168	45	12
El Paso, Tex.	47	27	5	3
Fort Worth, Tex.	129	88	9	5
Houston, Tex.	255	113	12	18
Little Rock, Ark.	84	49	9	3
New Orleans, La.	252	152	26	7
Oklahoma City, Okla.	123	80	16	4
San Antonio, Tex.	158	98	10	8
Shreveport, La.	75	50	21	3
Tulsa, Okla.	103	60	25	6
MOUNTAIN:	532	321	54	31
Albuquerque, N. Mex.	53	32	13	2
Colorado Springs, Colo.	32	21	5	1
Denver, Colo.	167	102	9	12
Ogden, Utah	30	17	2	2
Phoenix, Ariz.	98	56	15	8
Pueblo, Colo.	29	20	2	3
Salt Lake City, Utah	66	36	3	2
Tucson, Ariz.	57	37	5	1
PACIFIC:	1,830	1,146	55	63
Berkeley, Calif.	22	15	-	-
Fresno, Calif.	56	33	2	5
Glendale, Calif.	40	24	2	-
Honolulu, Hawaii	46	23	1	7
Long Beach, Calif.	93	59	1	2
Los Angeles, Calif.	600	382	11	23
Oakland, Calif.	73	53	2	2
Pasadena, Calif.	37	20	-	1
Portland, Oreg.	145	95	3	6
Sacramento, Calif.	71	48	2	1
San Diego, Calif.	95	51	5	4
San Francisco, Calif.	204	122	5	3
San Jose, Calif.	46	32	2	1
Seattle, Wash.	204	123	16	4
Spokane, Wash.	50	37	3	2
Tacoma, Wash.	48	29	-	2
Total	16,004	9,869	1,177	622
Estimated expected no.	13,614	7,933	656	712

Cumulative Totals
including reported corrections for previous weeks

All Causes, All Ages ----------46,229
All Causes, Age 65 and over----------28,245
Pneumonia and Influenza, All Ages---------- 3,038
All Causes, Under 1 Year of Age---------- 1,850

MEASLES – United States *(Continued from page 27)*

An increase in case rates over 1966 was noted in 11 states. However, only two states (Oklahoma and Nebraska) showed increases of magnitude to change to a different classification on the maps. In some of these 11 states, the higher rates are due to improved reporting.

Of the 18 states with reported measles cases of 100 or greater per 100,000 population in 1966, three showed case rates greater than 100 in 1967 (North Dakota, Texas, and Washington). In 1966, the case rates ranged from 103.7 to 738.5 for these 18 states. In 1967, the case rates for the four states with a rate greater than 100 per 100,000 population ranged from 122.9 to 184.2.

In 1967, of the 25 states reporting fewer than 25 measles cases per 100,000 population, 16 (64 percent) had rates less than 10; of the 11 states in 1966 with a rate less than 25, five (45 percent) reported fewer cases than 10 per 100,000 population.

(Reported by the State Services Section and the Statistics Section, NCDC.)

INTERNATIONAL NOTES
INFLUENZA – 1967

The World Health Organization has received official reports of influenza activity from the following Asian countries:

Japan: (information dated 7 December) – Since mid-November, outbreaks of influenza-like disease have been reported in several primary and middle schools in Tokyo and Aichi Prefectures. In the Tokyo area, the epidemic has a tendency to spread gradually.

A strain of virus A2 has been isolated from sick children in a school in Tokyo. It is antigenically almost identical with those isolated in Japan during the epidemics of 1965 and early 1967.

Further reports from Japan: (information dated 21 December 1967) – The influenza epidemic which started in Tokyo and Aichi Prefectures seems to be gradually spreading from east to west. Scattered outbreaks, mostly in primary and middle schools, have recently been reported from the western part of Japan, especially from Kyushu District.

Strains of virus A2 have been isolated in Tokyo and Yokohama, and Kyoto Prefecture.

Serological evidence of infection with Virus A2 has been obtained in Aichi, Hyogo and Saitama Prefecture.

Taiwan: Sporadic cases of influenza-like illness were reported in children and adults in late November and early December 1967. Strains preliminarily identified as virus B have been isolated from specimens collected in the Taipei city area.

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MORBIDITY AND MORTALITY WEEKLY REPORT

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY

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